

Fig.1. Nucleotide sequence and deduced amino acid sequence of CKB-15

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-80          -60          -40
CCGGCGGGCATCAGCTCCCTTGACCCAGTGGATATCGGTGGCCCCGTTATTCGTCCAGGT
-----+-----+-----+-----+-----+-----+-----+-----+
GGCCGCCCCGTAGTCGAGGGAACCTGGGTACCTATAGCCACCGGGGCAATAAGCAGGTCCA
-20          +1          20
GCCCAGGGAGGAGGACCCGCCTGCAGCATGAACCTGTGGCTCCTGGCCTGCCTGGTGGCC
-----+-----+-----+-----+-----+-----+-----+
CGGGTCCCTCCTCCTGGGCGGACGTCGTACTTGGACACCGAGGACCGGACCGACCCGG
40          60          80
M N L W L L A C L V A
GGCTTCCTGGGAGCCTGGGCCCCCGCTGTCCACACCCAAGGTGTCTTTGAGGACTGCTGC
-----+-----+-----+-----+-----+-----+-----+
CCGAAGGACCCTCGGACCCGGGGGCGACAGGTGTGGGTTCACAGAACTCCTGACGACG
G F L G A W A P A V H T Q G V F E D C C
100          120          140
CTGGCCTACCACTACCCCATTTGGGTGGGCTGTGCTCCGGCGCGCCTGGACTTACCGGATC
-----+-----+-----+-----+-----+-----+-----+
GACCGGATGGTGATGGGGTAACCCACCCGACACGAGGCCGCGCGGACCTGAATGGCCTAG
L A Y H Y P I G W A V L R R A W T Y R I
160          180          200
CAGGAGGTGAGCGGGAGCTGCAATCTGCCTGCTGCGATATTCTACCTCCCCAAGAGACAC
-----+-----+-----+-----+-----+-----+-----+
GTCCTCCACTCGCCCTCGACGTTAGACGGACGACGCTATAAGATGGAGGGGTTCTCTGTG
Q E V S G S C N L P A A I F Y L P K R H
220          240          260
AGGAAGGTGTGTGGGAACCCCAAAGCAGGGAGGTGCAGAGAGCCATGAAGCTCCTGGAT
-----+-----+-----+-----+-----+-----+-----+
TCCTTCCACACACCCTTGGGGTTTTCGTCCCTCCACGTCTCTCGGTACTTCGAGGACCTA
R K V C G N P K S R E V Q R A M K L L D
280          300          320
GCTCGAAATAAGGTTTTTGCAAAGCTCCACCACAACACGCGAGACCTTCCAAGGCCCTCAT
-----+-----+-----+-----+-----+-----+-----+
CGAGCTTTATTCCAAAACGTTTCGAGGTGGTGTGTGCGTCTGGAAGGTTCCGGGAGTA
A R N K V F A K L H H N T Q T F Q G P H
340          360          380
GCTGTAAAGAAGTTGAGTTCTGGAAACTCCAAGTTATCATCGTCCAAGTTTAGCAATCCC
-----+-----+-----+-----+-----+-----+-----+
CGACATTTCTTCAACTCAAGACCTTTGAGGTTCAATAGTAGCAGGTTCAAATCGTTAGGG
A V K K L S S G N S K L S S S K F S N P
400          420          440
ATCAGCAGCAGCAAGAGGAATGTCTCCCTCCTGATATCAGCTAATTCAGGACTGTGAGCC
-----+-----+-----+-----+-----+-----+-----+
TAGTCGTCGTCGTTCTCCTTACAGAGGGAGGACTATAGTCGATTAAGTCCTGACACTCGG
I S S S K R N V S L L I S A N S G L *

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08374460-051697

0867-0619

0867-0619

Fig.2 Alignment of CK beta-15 (CKB-15) with mouse MIP-related protein 2 (MMRP2)

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CKB-15 11 AGFLGAWAPAVHTQGVFE.....DCCLAYHYPIGWAVLRRWT 48
      |. . . . . | . . . . . | . . . . . | . . . . . |
MMRP2   5 ATETKEVQSSLKAQQGLEIEMFHMGFQDSSDCCLSYNSRIQCSRFIGYFP 54

CKB-15 49 YRIQEVSGSCNLPAAIFYLPKRHRKVCGNPKSREVQRAMKLLDARNKVFA 98
      :||:|. | :|:::| | .||:| | . | | | .
MMRP2  55 .....ISGGCTRP.GIIFISKRGFQVCANPSDRRVQRC.....IE 88

CKB-15 99 KLHHNTQTFQGPHAVKK 115
      :|.:|. | |:..|.
MMRP2  89 RLEQNSQ.....PRTYKQ 101

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269790" 09442880

769790" 09447330

Thymus Specific Expression of HTSEX82

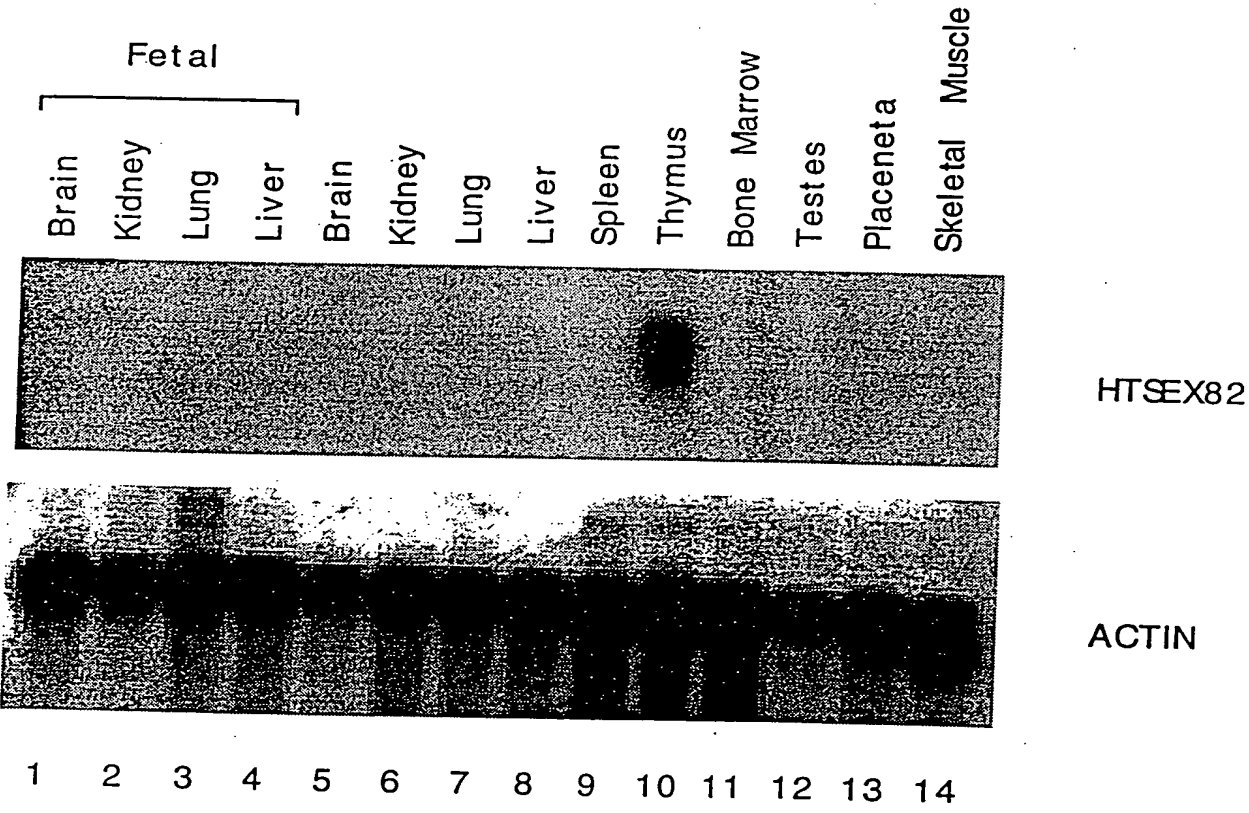


Figure 3.